CONTENTS

The Disks of Spiral Galaxies 1

D. J. ADAMS, *Department of Astronomy, University of Leicester, U.K.*

RR Lyrae Stars as Distance Indicators 17

R. F. JAMESON, *Department of Astronomy, University of Leicester, U.K.*

Statistical Methods of Stellar Polarimetry 27

D. CLARKE* and B. G. STEWART**, **University Observatory, Glasgow, U.K.*; ***School of Electronic and Electrical Engineering, Robert Gordon's Institute of Technology, Aberdeen, U.K.*

The Origin of Comets 53

M. E. BAILEY,* S. V. M. CLUBE** and W. M. NAPIER,*** **Department of Astronomy, The University, Manchester, U.K.*; ***Department of Astrophysics, Oxford, U.K.*; ****Royal Observatory, Blackford Hill, Edinburgh, U.K.*

Henry Rowland and Astronomical Spectroscopy: Celebration of the 100th Anniversary of Henry Rowland's Introduction of the Concave Diffraction Grating 115

Star Names — Origins and Misconceptions 237

G. HEUTER, *1 East View, Rogers Lane, Gwersyllt, Clwyd, U.K.*

Polarimetry of Cool Giants and Supergiants 253

H. E. SCHWARZ, *Mullard Space Science Laboratory, Surrey, U.K.*

New Ideas in Cosmology and New Solutions in General Relativity 281

P. S. WESSON, *Department of Physics, University of Waterloo, Canada*

A Large-Scale Atlas of the Milky Way Dark Clouds 291

J. V. FEITZINGER and J. A. STÜWE, *Astronomical Institute, Ruhr-University Bochum, F.R.G.*

An Analysis of the Light Changes of Eclipsing Variables in the Frequency-Domain: Practical Aspects 295

Z. KOPAL, *Department of Astronomy, University of Manchester, U.K.*

STRUCTURAL INDEX

History of Astronomy

Henry Rowland and Astronomical Spectroscopy: Celebration of the 100th Anniversary of Henry Rowland's Introduction of the Concave Diffraction Grating — 119–236

Star Names — Origins and Misconceptions — 237
G. Heuter

Instrumentation

Astronomical Spectroscopy — 119–236

Cometary Studies

The Origin of Comets — 53
M. E. Bailey, S. V. M. Clube and W. M. Napier

Astrophysics

Polarimetry of Cool Giants and Supergiants — 253
H. E. Schwarz

The Light Changes of Eclipsing Variables — 295
Z. Kopal

Statistical Methods of Stellar Polarimetry — 27
D. Clarke and B. G. Stewart

Milky Way Structure

RR Lyrae Stars as Distance Indicators — 17
R. F. Jameson

A Large-Scale Atlas of the Milky Way Dark Clouds — 291
J. V. Feitzinger and J. A. Stüwe

Galaxies

The Discs of Spiral Galaxies — 1
D. J. Adams

Cosmology

New Ideas in Cosmology and General Relativity — 281
P. S. Wesson

INDEX OF CONTRIBUTORS

Adams, D. J.	1	Kargon, R. H.	131
		Kopal, Z.	295
Babcock, H. W.	153		
Bailey, M. E.	53	Loewen, E. G.	223
Clarke, D.	27	Napier, W. M.	53
Clube, S. V. M.	53		
		Schwarz, H. E.	253
DeVorkin, D. H.	119	Spitzer, L., Jr	143
		Stewart, B. G.	27
Feitzinger, J. V.	291	Strong, J.	137
		Stüwe, J. A.	291
Henry, R. C.	119		
Herzberg, G.	201	Tousey, R.	175
Heuter, G.	237		
		Warner, D. J.	125
Jameson, R. F.	17	Wesson, P. S.	281